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S1	131	(netlist or schematic) same impedance and (transfer near3 function) and (frequency same domain)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/17 12:11
S2	66	S1 and simulat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/16 19:30
S3	8393	impedance same mismatch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/17 11:26
S4	6305	impedance near3 mismatch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/17 11:26
S5	916	S4 and simulat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/17 11:26
S6	123	S5 and (transfer near3 function)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/17 11:27
S7	86	S6 and @ad<"20020629"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/17 11:27
S8	1514	703/14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/17 12:12

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### 1 [A general dispersive multiconductor transmission line model for interconnect simulation in SPICE](#)

Mustafa Celik, Andreas C. Cangellaris

 January 1997 **Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design**
**Publisher:** IEEE Computer Society

 Full text available: [pdf\(230.32 KB\)](#)
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Although numerous methods have been proposed for interconnect simulation, no single model exists for all kind of transmission line problems. This paper presents a new, single, general dispersive coupled uniform/nonuniform transmission line model which can be used for interconnect simulation in SPICE. The mathematical model is based on the use of Chebyshev polynomials for the representation of the spatial variation of the transmission-line voltages and currents. A simple collocation procedure is ...

**Keywords:** transient analysis, multiconductor transmission lines, interconnect simulation, Chebyshev approximation

### 2 [Improved methods of simulating RLC couple and uncoupled transmission lines based on the method of characteristics](#)

Carol V. Gura, Jacob A. Abraham

 June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation**
**Publisher:** IEEE Computer Society Press

 Full text available: [pdf\(675.21 KB\)](#)

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This paper describes new techniques for simulating lossy (RLC) transmission lines based on the method of characteristics. For uncoupled lossy transmission lines a method is presented which speeds up the simulation time by a factor of two compared with existing techniques. A method is also presented for the transient analysis of coupled lossy lines in an inhomogeneous medium. Previously, simulation techniques were limited to coupled lossy lines in a homogeneous medium.

### 3 [An efficient methodology for extraction and simulation of transmission lines for application specific electronic modules](#)